Transys Electronics LIMITED

FST7320SM THRU FST73100SM

SCHOTTKY DIODES MODULE TYPE 70A

Features

High Surge Capability
Types Up to 100V V_{RRM}

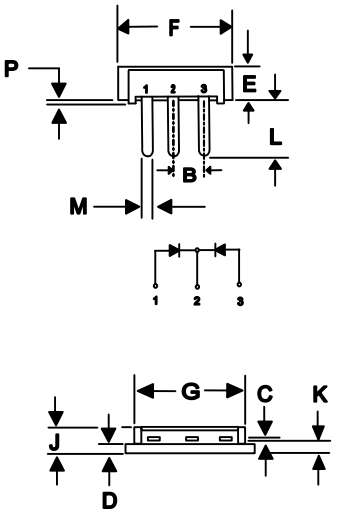
70Amp Rectifier
20-100 Volts

MINI MOD
D61-3SM

Maximum Ratings

Operating Temperature: -40 ℃ to+175 ℃
Storage Temperature: -40 ℃ to +175 ℃

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FST7320SM	20V	14V	20V
FST7330SM	30V	21V	30V
FST7335SM	35V	25V	35V
FST7340SM	40V	28V	40V
FST7345SM	45V	32V	45V
FST7360SM	60V	42V	60V
FST7380SM	80V	56V	80V
FST73100SM	100V	70V	100V



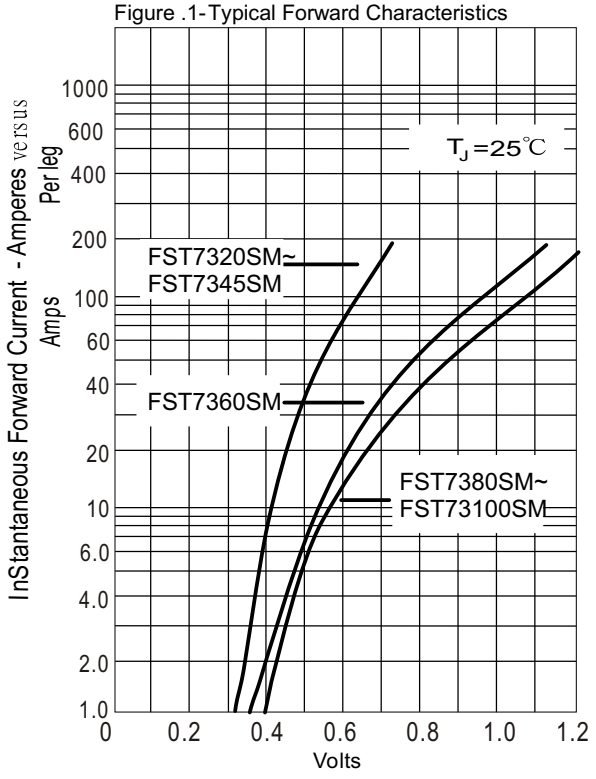
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	--------	--------	--------	--------	
B	.200	NOM	5.08	NOM	2PL
C	.027	.037	0.69	0.94	
D	.088	.098	2.24	2.49	
E	.350	.370	8.89	9.40	
F	.777	.797	19.74	20.24	
G	.695	.715	17.65	18.16	
J	.240	.260	6.10	6.60	
K	.115	.135	2.92	3.43	
L	.457	.477	11.61	12.12	
M	.065	.085	1.65	2.16	
N	--------	--------	--------	--------	⌀
P	.015	.025	0.38	0.64	

Electrical Characteristics @ 25 ℃ Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	70A	T_C =100 ℃
Peak Forward Surge Current (Per leg)	I_{FSM}	800A	8.3ms , half sine
Maximum Instantaneous Forward Voltage (Per leg) NOTE (1)	V_F	0.55V 0.75V 0.84V	(FST7320SM~FST7345SM) (FST7360SM) (FST7380SM~FST73100SM) I_{FM} = 35 A; T_j = 25 ℃
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg) NOTE (1)	I_R	5.0 mA 500 mA	T_J = 25 ℃ T_J =125 ℃
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	1.2 ℃/W	

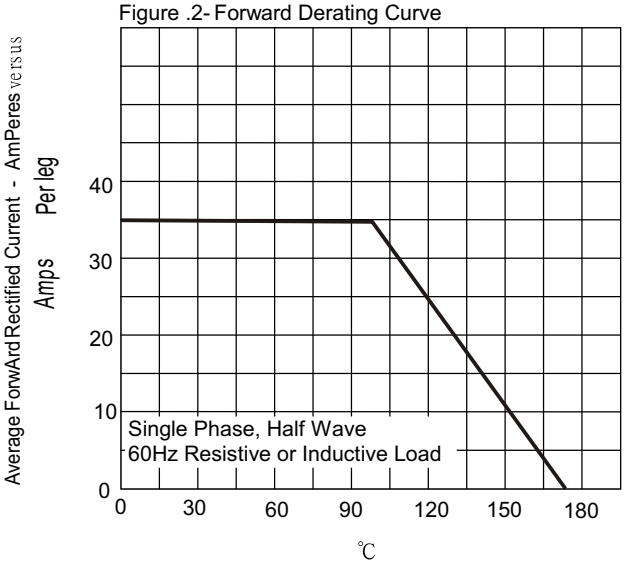
NOTE :
(1) Pulse Test: Pulse Width 300 usec, Duty Cycle < 2%

Figure .1-Typical Forward Characteristics



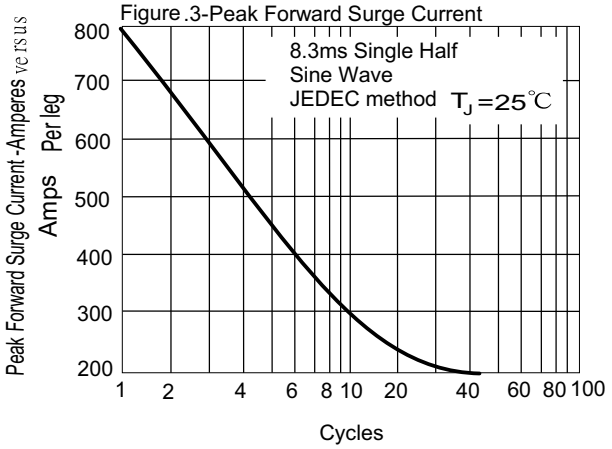
Instantaneous Forward Voltage - Volts

Figure .2- Forward Derating Curve



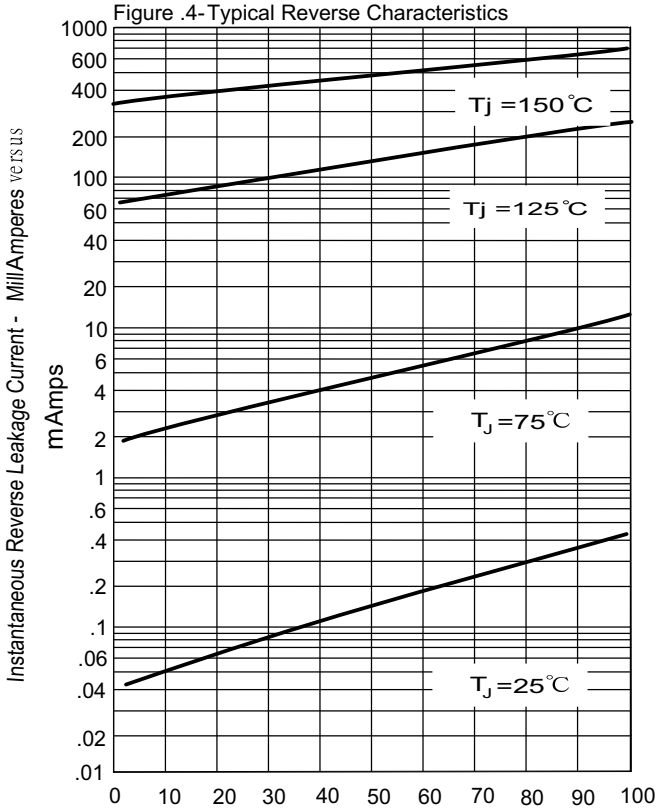
Case Temperature - ℃

Figure .3-Peak Forward Surge Current



Number Of Cycles At 60Hz - Cycles

Figure .4-Typical Reverse Characteristics



Reverse Voltage - Volts